



Cisco MDS 9134 Multilayer Fabric Switch Hardware Release Notes

For Installation in a Sun™ Storage Area Network

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Cisco MDS 9134 Multilayer Fabric Switch Hardware Release Notes

This document contains important information about the Cisco MDS 9134 34-port Multilayer Fabric Switch hardware installed in Sun storage area networks (SANs).

Read this document so that you are aware of issues or requirements that can affect the installation and operation of the Cisco MDS 9134 switch in a Sun SAN.

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Product Features

The Cisco MDS 9134 32-port Multilayer Fabric Switch provides up to 32 4-Gbps Fibre Channel ports and two 10-Gbps Fibre Channel ports in a one rack unit (1RU) chassis. A port activation license allows you to add an extra eight ports to the original 24-port configuration for a total of 32 4-Gbps ports. Another port activation license will allow you to activate the two 10-Gbps Fibre Channel ports for a total of 34 active ports.

The Cisco MDS 9134 switch can be used as a stand-alone switch or stacked together via copper X2 transceivers for up to 64 4-Gbps ports.

Note – Optical X2 transceivers can also be used to stack the Cisco MDS 9134 switches together.

The part numbers for the optical and copper X2 transceivers are as follows:

- Cisco 10 Gbps Fiber Channel-short wavelength X2 SFP: SG-XSWCS-10G-X2S-Z
- Cisco 10 Gbps Fiber Channel-long wavelength X2 SFP: SG-XSWCS-10G-X2L-Z

Supported Software

This section describes the firmware and operating system requirements for the Cisco MDS 9134 switch.

Firmware Requirements

The Cisco MDS 9134 Hardware requires SAN OS rev 3.2(1a) (minimum) which is delivered as patch 126488-03 and available from SunSolveSM. See [“Downloading and Installing the Firmware” on page 6](#) for more information.

Operating System Requirements

The following operating systems running on hosts on the SAN are compatible with the Cisco MDS 9134 switch:

Solaris

- Solaris 9 Update 1 or higher for SPARC
- Solaris 10 for SPARC and x86

Linux

- Red Hat Enterprise Linux 4.0 (32-bit/64-bit)
- SuSE Linux 9 Professional Community Edition (32-bit/64-bit)
- SuSE Linux 10 Professional Community Edition (32-bit/64-bit)

Microsoft Windows

- Microsoft Windows Server 2003 (32-bit/64-bit)

Other

- HP/UX 11.i and 11.23
- IBM AIX 5.2 and 5.3
- IBM z/OS

Supported Management Software

You can manage the Cisco MDS 9134 switch using any of the following software management tools.

- Cisco MDS 9000 family CLI
- Cisco Quick Configuration wizard
- Cisco Fabric Manager Release 3.2(1a) or higher
- Application programming interface (API) for integration with third-party and user-developed management tools

If you need information about these tools, see the Cisco product documentation at:

http://www.cisco.com/en/US/support/tsd_documentation.html

Supported Hardware

This section lists the hardware that is compatible with the Cisco MDS 9134 switch.

Supported Switches and Directors

The Cisco MDS 9134 switch interoperates with the Cisco MDS 9000 family of products. For more information, see Cisco's interoperability support matrix located at <http://www.cisco.com/>.

Supported Storage Platforms

The Cisco MDS 9134 switch is compatible with the following storage platforms:

- Sun StorEdge™ 3510, 3511 FC arrays
- Sun StorEdge 6120 and 6130 arrays
- Sun StorageTek™ 6140 and 6540 arrays
- Sun StorEdge 6320 system
- Sun StorageTek FlexLine™ 380 array
- Sun StorEdge Fibre Channel 9840A, 9840B, 9840C, 9940A, 9940B, LTO-2, LTO-3, and SDLT 600 FC tape drives
- Sun StorEdge 9910, 9960, 9970, 9980, 9985, 9990
- Sun StorEdge FC420 FC-SCSI Bridge for L25 and L100 tape libraries with the SG-XFCCARD2-C LVD SCSI to Fibre Channel Card Quantum or the SG-XFC420CARD-MOD Fibre Channel / LVD Internal Bridge
- FC Robots: L180, L700j, L1400M, SL500, L500

Supported HBAs

The Cisco MDS 9134 switch is compatible with the following HBAs:

- SG-XPCIE2FC-EB4-Z
- SG-XPCIE20FC-NEM-Z
- SG-XPCI2FC-QF2 and SG-XPCI2FC-QF2-Z
- SG-XPCI1FC-QF2

- SG-XPCI1FC-QLC and SG-XPCI1FC-QLC-Z (Maximum of two cascaded switches between devices)
- SG-XPCI1FC-EM2 and SG-XPCI2FC-EM2
- SG-XPCI1FC-QF4 and SG-XPCI2FC-QF4
- SG-XPCIE1FC-QF4 and SG-XPCIE2FC-QF4
- SG-XPCI1FC-EM4-Z and SG-XPCI2FC-EM4-Z
- SG-XPCIE1FC-EM4 and SG-XPCIE2FC-EM4
- SG-XPCIE2FC-QB4-Z

Supported Server Platforms

The Cisco MDS 9134 switch is compatible with the following Sun servers:

x64/x86 Systems

- Sun Fire™ V40z
- Sun Fire x2100
- Sun Fire x2200 (M2)
- Sun Fire x4100 (M2) and x4200 (M2)
- Sun Fire x4600 (M2)
- Sun Fire 8000 Modular System

SPARC Servers

- Sun Fire T1000/T2000
- Sun Fire V1280/Netra 1280
- Sun Fire Netra 240
- Sun Fire V210/V240/V250
- Sun Fire V245/V445
- Sun Fire V440
- Sun Fire V480
- Sun Fire V490
- Sun Fire V880
- Sun Fire V890
- Sun Fire 4800/4810/6800

- Sun Fire 2900
- Sun Fire 12k/15k/20k/25k
- Sun Enterprise™ 4900/6900

Downloading and Installing the Firmware

This section provides instructions for downloading and installing the Cisco MDS 9000 SAN-OS firmware.

Note – Download the latest version of the firmware to ensure proper compatibility.

▼ To Download and Install the Patch

Use the following procedure to retrieve Cisco MDS 9000 SAN-OS revision.

- 1. Access the SunSolve web site at:**
<http://sunsolve.sun.com>
- 2. Accept the terms and conditions of the license agreement.**
- 3. Click Patches and Updates under the Support category.**
- 4. Type Patch ID 126488-xx under PatchFinder and click Find Patch.**
Do not type the -xx revision number. PatchFinder automatically finds the latest patch.
- 5. Verify that you have retrieved the correct patch.**
- 6. Print the README file that contains installation instructions and any special guidelines.**
- 7. Download the patch by clicking on either HTTP or FTP in the following line:**
Download Patch (*nn,nnn,nnn* bytes) HTTP FTP
- 8. When you have finished downloading the patch, install the patch by following the instructions in the patch README file.**

Related Documentation

For more information about the Cisco MDS 9134 switch, refer to the following documents:

- Cisco MDS 9000 Family CLI Configuration Guide, Release 3.x
- Cisco MDS 9000 Family Software Upgrade and Downgrade Guide
- Cisco MDS 9000 Family Fabric Manager Configuration Guide, Release 3.x

Service Contact Information

If you need help installing or using this product in the United States, call 1-800-USA-4SUN, or go to:

<http://www.sun.com/service/contacting/index.html>

